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1 Routine/Function Prologues

1.1 Fortran: Module Interface gdasdomain_module.F90 (Source File: gdasdomain_module.F90)

Contains routines and variables that define the native domain for GDAS model forcing

INTERFACE:

```
module gdasdomain_module
```

USES:

```
use gdasdrv_module
```

1.1.1 defnatgdas.F90 (Source File: gdasdomain_module.F90)

Defines the kgds array describing the native forcing resolution for GDAS data.

REVISION HISTORY:

11Dec2003: Sujay Kumar; Initial Specification

INTERFACE:

```
subroutine defnatgdas(kgdsi)
```

USES:

```
use lisdrv_module, only: lis
use time_module, only : date2time
implicit none
```

ARGUMENTS:

```
integer, intent(inout) :: kgdsi(200)
integer :: updoy, yr1,mo1,da1,hr1,mn1,ss1
real :: upgmt
```

CONTENTS:

```
call readgdascrd(gdasdrv)
kgdsi(1) = 4
kgdsi(2) = 384
kgdsi(3) = 190
kgdsi(4) = 89277
kgdsi(5) = 0
kgdsi(6) = 128
kgdsi(7) = -89277
kgdsi(8) = -938
kgdsi(9) = 938
```

```
kgdsi(10) = 95
kgdsi(20) = 255
mi = gdasdrv%ncold*gdasdrv%nrold

yr1 = 2000
mo1 = 01
da1 = 24
hr1 = 12
mn1 = 0; ss1 = 0
call date2time( gdasdrv%griduptime1,updoy,upgmt,yr1,mo1,da1,hr1,mn1,ss1 )

yr1 = 2002      !grid update time
mo1 = 10
da1 = 29
hr1 = 12
mn1 = 0; ss1 = 0
call date2time(gdasdrv%griduptime2,updoy,upgmt,yr1,mo1,da1,hr1,mn1,ss1 )
gdasdrv%gridchange1 = .true.
gdasdrv%gridchange2 = .true.
```